

Monthly Oversight Report 48
ACS NPL Site
Griffith, Indiana
November 27, 2004 - December 31, 2004



101 N. Wacker Drive

Black & Veatch Special Projects Corp.

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Tel: (312) 346-3775 Fax: (312) 346-4781

USEPA/RAC VII American Chemical Services RAO (057-ROBF-05J7) BVSPC Project 46526 BVSPC File C.3 January 14, 2005

Mr. Kevin Adler U.S. Environmental Protection Agency 77 W. Jackson Boulevard (SR-6J) Chicago, Illinois 60604-3590

Subject:

Monthly Oversight Summary Report

No. 48 for December 2004

Dear Mr. Adler:

Enclosed is the Monthly Oversight Summary Report No. 48 for December 2004 for the American Chemical Services Superfund Site in Griffith, Indiana.

If you have any questions, please call (312-683-7856) or email (campbelllm@bv.com).

Sincerely,

BLACK & VEATCH Special Projects Corp.

Accept M. Campbell, P.E.

Site Manager

Enclosure

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Monthly Oversight Summary Report No. 48 ACS Superfund Site WA57, 46526.238

Reporting Period: Month of December (November 27 - December 31, 2004).

BVSPC O/S Dates: December 7 and 23, 2004.

Personnel Summary Affiliation	No. of Personnel	Responsibility	
Montgomery Watson Harza	2	Respondent's General Contractor	
Indiana Department of Environmental Management	1	State Regulatory Agency	
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor	
Austgen	1	General Contractor	
Eagle Environmental Services	3	Speciality Contractor	

Construction Activities

Major Activities:

- Montgomery Watson Harza continued operating the groundwater treatment plant, the in-situ soil vapor extraction systems, and the air sparge systems.
- Eagle Environmental Services removed sludge and an angle iron from the activated sludge clarifier that had impeded the rotation of the sludge rake. Also removed sludge from tank T2.
- Montgomery Watson Harza and Austgen removed sludge from lamella clarifier ME5.
- Microbac (formerly Simalabs) collected samples from the groundwater treatment plant for routine process monitoring.
- Montgomery Watson Harza held construction coordination meetings at the site on December 9 and 23, 2004.

Activities Performed:

Montgomery Watson Harza (MWH) reported that it continued to operate the groundwater treatment plant (GWTP) at 25 gpm, except during the period December 6-9 when it was off-line because of problems with the activated sludge clarifier rake. MWH reported that water was pumped to the GWTP from all available sources. Microbac (formerly Simalabs) collected samples from the GWTP for routine process monitoring.

MWH reported on December 6 that the sludge rake in the activated sludge clarifier had stopped rotating. Eagle Environmental Services mobilized to the site on December 7 to pump out the sludge from the clarifier and investigate the rake rotation problem. On December 9, Eagle performed a permitted confined space entry into the clarifier to investigate the cause of the rake rotation problem.

Eagle found a foot-long piece of angle iron lodged under the rake, preventing its rotation. MWH reported that the obstruction was removed, and the sludge rake and GWTP were reactivated with no continuing problems. MWH reported that it did not identify the source of the angle iron. Also, on December 7, Eagle performed a permitted confined space entry into tank T2 to remove sludge from that tank. Both confined space entries were performed with personnel wearing respirators and VOC monitoring using a photo ionization detector (PID). Eagle demobilized from the site on December 9.

While the GWTP was off-line, MWH and Austgen removed the sludge from the lamella clarifier ME5 on December 7.

MWH continued to operate the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) and Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) systems, processing vapors through thermal oxidizers 1 and 2. Vapors from the ONCA SBPA ISVE system were processed through thermal oxidizer 1 (thermox 1), and those from the OFCA ISVE system were processed through thermox 2. MWH shut down the ISVE systems during the period December 7-9 to prevent exposure of Eagle personnel to the effluent plume from the thermox units.

MWH reported that it was pulling vapors from 28 OFCA ISVE wells and that the two OFCA blowers were pumping vapors at 2,000 cubic feet per minute (cfm) back to thermox 2. MWH reported that it was pulling vapors from 14¹ ONCA SBPA ISVE wells, although significant flow was observed in only eight (five last month) of these activated wells. This system continues to operate at 1,000 cfm (with zero ambient air), pumping vapors back to thermox 1. MWH is considering activating more or a different pattern of SVE wells. MWH reported that it has not pumped product from the ONCA SBPA ISVE wells for a few months. MWH will prepare a product removal pumping plan/schedule.

MWH reported that the air sparge systems began operation on December 2 in both the OFCA and the ONCA SBPA. All installed air sparge points have been activated, and no problems were encountered.

MWH reported that it had received permission from Onyx to dispose of the lower aquifer soil cuttings together with the sludge from the GWTP.

MWH reported that additional fence stanchions had been delivered to the site and that it planned to pour cement grout into the bases of the yellow chain fence stanchions to increase their stability. The fencing would then be installed on the SBPA cover.

MWH reported that it measured groundwater levels in wells at the site on December 21. Water levels in the SBPA continued to be higher than desired, possibly impacting the vapor flow from ISVE wells.

¹Previous reports had incorrectly identified that vapors were being pulled from 12 SBPA ISVE wells. Actually, vapors have been pulled from 14 SBPA ISVE wells for a number of months.

MWH reported that it had contacted the owner of the 1002 Reder Road residence and informed him of the March 2005 date of the second round of ChemOx injections.

MWH reported that the results of the residential well sampling in September 2004 identified trace amounts of DDT in one well. EPA suggested and MWH agreed to resample this well in January 2005.

MWH and Black & Veatch Special Projects Corp. (BVSPC) personnel met on December 23 with Howard Anderson and Donna Gonzalez, residents living less than a mile west of the GWTP, regarding the "whining" noise coming from the GWTP. Concluded the noise was probably that from the external air blowers. MWH agreed to assess acoustical containment of these blowers to reduce the noise and to inform the residents of its plans.

MWH held construction coordination meetings at the site on December 9 and 23, 2004.

Attached are BVSPC weekly reports No. 196 through 200, correspondence, log book notes, and photographs of the daily activities. BVSPC's crew conducted oversight of the major field activities on portions of 2 days (December 7 and 23, 2004). BVSPC's crew attended the construction coordination meetings on December 9 (via telephone) and 23 (at the site).

Topics of Concern: None

<u>Concern Resolution:</u> MWH met with local residents regarding the "whining" noise coming from the GWTP and agreed to investigate methods to minimize the off-site noise level.

Upcoming Activities:

- MWH to continue proving out the ONCA SBPA ISVE system wells.
- MWH to continue operating the GWTP, the OFCA and ONCA SBPA ISVE systems, and the air sparge systems.
- MWH to assess results of final laboratory testing of cores of the SBPA final asphalt cover.
- MWH to complete fencing of the SBPA final cover.
- MWH to collect additional soil gas samples to assess possible soil vapor intrusion into the house basement resulting from the smear zone in the South Area plume.
- MWH to reassess its approach to completing the lower aquifer investigation.

Signature: <u>Larry Campbell</u>	Date: January 4, 2005
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Weekly Oversight Summary Report No. 196 ACS Superfund Site WA57, 46526.238

Reporting Period: Week of November 29, 2004.

BVSPC O/S Dates: Cancelled because of limited site activities.

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	1	Respondent's General Contractor
Austgen	1	General Contractor

Construction Activities

Major Activities:

• Montgomery Watson Harza continued operating the groundwater treatment plant and the in-situ soil vapor extraction systems.

Activities Performed:

Montgomery Watson Harza (MWH) reported that it continued to operate the groundwater treatment plant (GWTP) at 25 gpm. After replacing fuses and resetting circuit breakers following the power failure on the evening of November 25, the plant was brought back online on November 27. MWH reported that water is being pumped to the GWTP from all available sources.

MWH continued to operate the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) and Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) systems, processing vapors through thermal oxidizers 1 and 2. Vapors from the ONCA SBPA ISVE system were processed through thermal oxidizer 1 (thermox 1), and those from the OFCA ISVE system were processed through thermox 2.

MWH reported that it was pulling vapors from 28 OFCA ISVE wells and that the two OFCA blowers are currently pumping vapors at 2,000 cubic feet per minute (cfm) back to thermox 2. MWH reported that it was pulling vapors from 14¹ ONCA SBPA ISVE wells, although significant flow was observed in only five of these activated wells. This system continues to operate at 1,000 cfm (with zero ambient air), pumping vapors back to thermox 1.

MWH reported that the air sparge systems were turned on December 2 in both the OFCA and ONCA SBPA. All installed air sparge points have been activated and no problems were encountered.

Topics of Concern: None.

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¹Previous reports had incorrectly identified that vapors were being pulled from 12 SBPA ISVE wells. Actually, vapors have been pulled from 14 SBPA ISVE wells for a number of months.

Concern Resolution: None.

Upcoming Activities:

- MWH to continue proving out the ONCA SBPA ISVE system wells.
- MWH to continue operating the GWTP and the OFCA and ONCA SBPA ISVE systems.
- MWH to assess results of final laboratory testing of cores of the SBPA final asphalt cover.
- MWH to complete fencing of the SBPA final cover.
- MWH to collect additional soil gas samples to assess possible soil vapor intrusion into the house basement resulting from the smear zone in the South Area plume.
- MWH to reassess its approach to completing the lower aquifer investigation.
- MWH to contact local resident regarding "whining" noise from the treatment system.
- MWH to measure site water levels onsite and in monitoring wells.

Signature:	Larry Campbell	Date: <u>December 8, 2004</u>
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Weekly Oversight Summary Report No. 197 ACS Superfund Site WA57, 46526.238

Reporting Period: Week of December 6, 2004.

BVSPC O/S Dates: December 7, 2004 (Mr. Campbell).

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	1	Respondent's General Contractor
Indiana Department of Environmental Management	1	State Regulatory Agency
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Austgen	1	General Contractor
Eagle Environmental Services	3	Speciality Contractor

Construction Activities

Major Activities:

- Montgomery Watson Harza continued operating the groundwater treatment plant and the in-situ soil vapor extraction systems.
- Eagle Environmental Services removed sludge and an angle iron from the activated sludge clarifier that had impeded the rotation of the sludge rake. Also removed sludge from tank T2.
- Montgomery Watson Harza and Austgen removed sludge from lamella clarifier ME5.
- Montgomery Watson Harza conducted a construction coordination meeting at the site on December 9.

Activities Performed:

Montgomery Watson Harza (MWH) reported that it continued to operate the groundwater treatment plant (GWTP) at 25 gpm, except during the period December 6-9 when it was off-line because of problems with the activated sludge clarifier rake. MWH reported that water was pumped to the GWTP from all available sources.

MWH reported on December 6 that the sludge rake in the activated sludge clarifier had stopped rotating. Eagle Environmental Services mobilized to the site on December 7 to pump out the sludge from the clarifier and investigate the rake rotation problem. On December 9, Eagle performed a permitted confined space entry into the clarifier to investigate the cause of the rake rotation problem. Eagle found a foot-long piece of angle iron lodged under the rake, preventing its rotation. MWH reported that the obstruction was removed, and the sludge rake and GWTP were reactivated with no continuing problems. MWH reported that it did not identify the source of the angle iron. Also, on December 7, Eagle performed a permitted confined space entry into tank T2 to remove sludge from

that tank. Both confined space entries were performed with personnel wearing respirators and VOC monitoring using a photo ionization detector (PID). Eagle demobilized from the site on December 9.

While the GWTP was off-line, MWH and Austgen removed the sludge from the lamella clarifier ME5 on December 7.

MWH continued to operate the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) and Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) systems, processing vapors through thermal oxidizers 1 and 2. Vapors from the ONCA SBPA ISVE system were processed through thermal oxidizer 1 (thermox 1), and those from the OFCA ISVE system were processed through thermox 2. MWH shut down the ISVE systems during the period December 7-9 to prevent exposure of Eagle personnel to the effluent plume from the thermox units.

MWH reported that it was pulling vapors from 28 OFCA ISVE wells and that the two OFCA blowers are currently pumping vapors at 2,000 cubic feet per minute (cfm) back to thermox 2. MWH reported that it was pulling vapors from 14¹ ONCA SBPA ISVE wells, although significant flow was observed in only five of these activated wells. This system continues to operate at 1,000 cfm (with zero ambient air), pumping vapors back to thermox 1.

MWH reported that the air sparge systems continued to operate satisfactorily.

MWH reported that it had received permission from Onyx to dispose of the lower aquifer soil cuttings together with the sludge from the GWTP.

MWH held a construction coordination meeting at the site on December 9, 2004. Black & Veatch Special Projects Corp. attended this meeting via telephone.

Topics of Concern: None.

Concern Resolution: None.

Upcoming Activities:

- MWH to continue proving out the ONCA SBPA ISVE system wells.
- MWH to continue operating the GWTP and the OFCA and ONCA SBPA ISVE systems.
- MWH to assess results of final laboratory testing of cores of the SBPA final asphalt cover.
- MWH to complete fencing of the SBPA final cover.
- MWH to collect additional soil gas samples to assess possible soil vapor intrusion into the house basement resulting from the smear zone in the South Area plume.
- MWH to reassess its approach to completing the lower aquifer investigation.
- MWH to contact local resident regarding "whining" noise from the treatment system.

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¹Previous reports had incorrectly identified that vapors were being pulled from 12 SBPA ISVE wells. Actually, vapors have been pulled from 14 SBPA ISVE wells for a number of months.

•	MWH to measure site water levels onsite and in monitoring wells.		ls.
Signature:	Larry Campbell	Date: Decembe	er 15, 2004
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WEEKLY CONSTRUCTION MEETING MINUTES FOR DECEMBER 9, 2004 MEETING AMERICAN CHEMICAL SERVICE, NPL SITE GRIFFITH, INDIANA

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MEETING DATE:

Thursday, December 9, 2004

MEETING TIME:

10:00 AM

MEETING LOCATION:

MWH Chicago Office

ATTENDEES:

Prabhakar Kasarabada - IDEM

Lee Orosz – MWH

Rob Adams - MWH (via telephone) Kevin Adler - U.S. EPA (via telephone) Larry Campbell – BVSPC (via telephone) Matt Mesarch – MWH (via telephone) Chad Smith – MWH (via telephone) Peter Vagt – MWH (via telephone)

TOPICS

Health and Safety Summary

There have been no health and safety issues since the last meeting on October 28th.

Ausgen Electric, Environmental Field Services, Mompar Insulation, and Eagle Environmental week on site in the past two weeks and had no health and safety incidents. On December 9th, Eagle Environmental conducted a confined space entry to clean out tank T-2 and the activated sludge clarifier. The work was done in respirators and a PID was used to monitor for VOCs per the lite's confined space entry procedures. No PID hits were recorded during clean out activities.

Groundwater Treatment Plant (GWTP) Status

The GWTP is presently operating at 25 gallons per minute (gpm).

On the evening of November 25th the GWTP shut down due to a loss of electrical power. As a result of the power outage, numerous fuses were blown and have been replaced. The plant was brought back online on November 27th. Mr. Campbell asked whether the GWTP adequately aler's MWH staff when the plant shuts down. Mr. Adams indicated that MWH would examine their automated system and address this issue at the next meeting.

On December 6th Mr. Orosz observed that the center studge rake in the activated sludge clarifier was not moving. The GWTP was taken offline and the liquid in the clarifier was pumped down on December 7th and 8th to allow for inspection of the rake. The ISVE system was also taken offline as a precaution to prevent worker exposure to the effluent plume from the scrubber stack while working on top of the activated sludge plant. On December 9th MWH discovered that a piece of angle iron had become lodged in the rake assembly preventing it from functioning projectly. The obstruction was removed. MWH is currently evaluating whether the rake assembly will function now that the obstruction has been removed.

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Off-Site Area/SBPA ISVE Systems

The Off-Site ISVE system is currently operating with a vapor collection rate of approximately 2,000 cubic feet per minute (CFM). On November 23rd, Mompar Insulation was onsite to install insulation for the new blower shed in the Off-Site Area. On November 24th, an additional 14 ISVE wells were activated in the Off-Site Area, bringing the total to 28. The additional wells were: SVE-1, SVE-7, SVE-8, SVE-9, SVE-14, SVE-15, SVE-18, SVE-21, SVE-27, SVE-30, SVE-31, SVE-33, SVE-36, and SVE-37. Flow immediately occurred in 11 of the 14 wells and was impending in the other 3 (i.e., the Magnehelic gauge was "fluttering" at zero).

The SBPA ISVE system is currently operating with a vapor collection rate of approximately 1,000 cubic feet per minute (CFM). There were no changes in the SBPA ISVE system wells. However, in the most recent monitoring event, significant flow was only observed in five of the operating wells (flow was observed in 9 wells in the previous month). The water levels in numerous wells were higher than in the previous month, which may have contributed to the reduced flow readings.

MWH is now operating the SBPA ISVE system with zero ambient air and may increase the number of wells in operation or operate different wells. This decision will be contingent upon the exults of the next monitoring event. Mr. Campbell asked whether MWH has pumped product from any wells in the past month. Mr. Orosz indicated that no pumping had taken place within the past two months. Product levels will be evaluated in these wells during the next ISVE monitoring event to determine whether additional product recovery should be performed.

On December 2nd the air sparge system was turned on. All air sparge points were activated in both the Off-Site Area and SBPA.

On December 6th, both ISVE systems were taken offline while maintenance was being performed on the activated sludge clarifier. As of December 9th, the thermal oxidizers for both systems were in a "hot idle" mode and ready to resume operation once the maintenance has been completed.

SBPA Final Cover

MWH has finished a plan for expanding the yellow fencing system in the SBPA. MWH will pour concrete into the bases of the yellow fence posts once additional fence posts are delivered to the slie to add stability and provide a stronger fencing system. MWH continues to evaluate the potential to expand the extents of the fence limits.

MW anticipates submitting the SBPA Final Cover Construction Completion Report in January 2005.

Lower Aquifer Investigation

MWII is currently validating the analytical results from the Lower Aquifer Investigation. A report detailing the findings of this investigation and proposing an additional follow-up investigation is anticipated to be submitted in January 2005.

MWI also contacted Onyx in Port Arthur, Texas, regarding disposal of soil cuttings derived from his investigation. They indicated that the disposal permit would allow MWH to add all of the soil cuttings to the filter cake roll-off box for disposal. Consequently, the soil cuttings will not remain onsite past 90 days as previously expected.

Construction Meeting Minutes

December 14, 2004

ACS NPL Site

Chemical Oxidation Treatment

MV H has received the analytical results from the post-application monitoring event. The results indicated general decreases in contaminant concentrations in both soil and groundwater. For example, at groundwater monitoring location TW01 the gasoline range organic compound (GRO) concentration decreased from 180,000 to 39,000 ug/l. At soil location 3, the diesel range organic compound (DRO) concentration decreased from 4,700,000 to 540,000 ug/kg. A second full-scale application is planned for March 2005 instead of February 2005, as previously planned. The injection process does not work well under freezing conditions commonly encountered in February.

MWH is evaluating the results of the soil vapor investigation and will propose a follow-up investigation. Mr. Kasarabada asked whether the residence at the corner of Colfax Avenue and Reder Road included a basement. MWH indicated that it did.

Groundwater and Residential Well Sampling

MWH has evaluated the results from the groundwater sampling activities completed in September 2004. The results were consistent with those of previous sampling events. In the residential well samples there were trace levels of VOCs detected. However, these do not appear to be related to site impacts. Mr. Adler is preparing letters to each resident summarizing the results of the residential well sampling. The next sampling event is scheduled for March 2005.

Look Ahead Schedule	
December 10, 2004 through December 23, 2004	 Operate and maintain the GWTP/BWES/PGCS (on-going) Operate and maintain the ISVE (on-going) Collect site water levels (week of December 20th) Collect water levels in PSVP monitoring wells (week of December 20th) Pour concrete into base of yellow fence posts (TBD)
Health and Safety Items to Monitor	 Routine daily tailgate health and safety meetings for all work activities Continued air monitoring in GWTP Monitor areas for icy conditions and apply salt where necessary Monitor weather conditions in advance of work scheduled outdoors so that workers can dress appropriately

Next Construction Meeting - Thursday, December 23, 2004, 10 AM.

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Construction Meeting Minutes

December 14, 2004

ACS NPL Site

Weekly Oversight Summary Report No. 198 ACS Superfund Site WA57, 46526.238

Reporting Period: Week of December 13, 2004.

BVSPC O/S Dates: Cancelled because of limited site activities.

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	1	Respondent's General Contractor
Austgen	1	General Contractor

Construction Activities

Major Activities:

• Montgomery Watson Harza continued operating the groundwater treatment plant, the in-situ soil vapor extraction systems, and the air sparge systems.

Activities Performed:

Montgomery Watson Harza (MWH) reported that it continued to operate the groundwater treatment plant (GWTP) at 25 gpm and that the reactivated sludge clarifier rake operated satisfactorily. MWH reported that water was pumped to the GWTP from all available sources.

MWH continued to operate the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) and Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) systems, processing vapors through thermal oxidizers 1 and 2. Vapors from the ONCA SBPA ISVE system were processed through thermal oxidizer 1 (thermox 1), and those from the OFCA ISVE system were processed through thermox 2.

MWH reported that it was pulling vapors from 28 OFCA ISVE wells and that the two OFCA blowers are currently pumping vapors at 2,000 cubic feet per minute (cfm) back to thermox 2. MWH reported that it was pulling vapors from 14¹ ONCA SBPA ISVE wells, although significant flow was observed in only five of these activated wells. This system continues to operate at 1,000 cfm (with zero ambient air), pumping vapors back to thermox 1.

MWH reported that the air sparge systems continued to operate satisfactorily.

<u>Topics of Concern:</u> None.

Concern Resolution: None.

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¹Previous reports had incorrectly identified that vapors were being pulled from 12 SBPA ISVE wells. Actually, vapors have been pulled from 14 SBPA ISVE wells for a number of months.

Upcoming Activities:

- MWH to continue proving out the ONCA SBPA ISVE system wells.
- MWH to continue operating the GWTP and the OFCA and ONCA SBPA ISVE and air sparge systems.
- MWH to assess results of final laboratory testing of cores of the SBPA final asphalt cover
- MWH to complete fencing of the SBPA final cover.
- MWH to collect additional soil gas samples to assess possible soil vapor intrusion into the house basement resulting from the smear zone in the South Area plume.
- MWH to reassess its approach to completing the lower aquifer investigation.
- MWH to contact local resident regarding "whining" noise from the treatment system.
- MWH to measure site water levels onsite and in monitoring wells.

Signature:	Larry Campbell	Date: December 22, 2004
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Weekly Oversight Summary Report No. 199 ACS Superfund Site WA57, 46526.238

Reporting Period: Week of December 20, 2004.

BVSPC O/S Dates: December 23, 2004 (Mr. Campbell)

Personnel Summary Affiliation	No. of Personnel	Responsibility	
Montgomery Watson Harza	2	Respondent's General Contractor	
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor	
Austgen	1	General Contractor	

Construction Activities

Major Activities:

- Montgomery Watson Harza continued operating the groundwater treatment plant, the in-situ soil vapor extraction systems, and the air sparge systems.
- Montgomery Watson Harza measured water levels and assessed performance of the in-site soil vapor extraction system.
- Montgomery Watson Harza met with local residents regarding the "whining" noise doming from the GWTP.
- Montgomery Watson Harza conducted a construction coordination meeting at the site on December 23.

Activities Performed:

Montgomery Watson Harza (MWH) reported that it continued to operate the groundwater treatment plant (GWTP) at 25 gpm and that the reactivated sludge clarifier rake operated satisfactorily. MWH reported that water was pumped to the GWTP from all available sources.

MWH continued to operate the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) and Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) systems, processing vapors through thermal oxidizers 1 and 2. Vapors from the ONCA SBPA ISVE system were processed through thermal oxidizer 1 (thermox 1), and those from the OFCA ISVE system were processed through thermox 2.

MWH reported that it was pulling vapors from 28 OFCA ISVE wells and that the two OFCA blowers are currently pumping vapors at 2,000 cubic feet per minute (cfm) back to thermox 2. MWH reported that it was now pulling vapors from 14¹ ONCA SBPA ISVE wells, although

Page 1 Weekly OSR No. 199

¹Previous reports had incorrectly identified that vapors were being pulled from 12 SBPA ISVE wells. Actually, vapors have been pulled from 14 SBPA ISVE wells for a number of months.

significant flow was observed in only eight of these activated wells. This system continues to operate at 1,000 cfm (with zero ambient air), pumping vapors back to thermox 1.

MWH reported that the air sparge systems continued to operate satisfactorily.

MWH reported that it measured groundwater levels in wells at the site on December 21. Water levels in the SBPA continued to be higher than desired, possibly impacting the vapor flow from ISVE wells.

MWH reported that additional SBPA fence stanchions had been delivered to the site and the bases would soon be filled with cement grout and then deployed on the SBPA cover.

MWH reported that it had contacted the owner of the 1002 Reder Road residence and informed him of the March 2005 date of the second round of ChemOx injections.

MWH reported that the results of the residential well sampling in September 2004 identified trace amounts of DDT in one well. EPA suggested and MWH agreed to resample this well in January 2005.

MWH and Black & Veatch Special Projects Corp. (BVSPC) personnel met on December 23 with Howard Anderson and Donna Gonzalez, residents living less than a mile west of the GWTP, regarding the "whining" noise coming from the GWTP. Concluded the noise was probably that from the external air blowers. MWH agreed to assess acoustical containment of these blowers to reduce the noise and to inform the residents of its plans.

MWH held a construction coordination meeting at the site on December 23, 2004. BVSPC attended this meeting.

Topics of Concern: None.

<u>Concern Resolution:</u> MWH met with local residents regarding the "whining" noise coming from the GWTP and agreed to investigate methods to minimize the off-site noise level.

Upcoming Activities:

- MWH to continue proving out the ONCA SBPA ISVE system wells.
- MWH to continue operating the GWTP and the OFCA and ONCA SBPA ISVE and air sparge systems.
- MWH to assess results of final laboratory testing of cores of the SBPA final asphalt cover.
- MWH to complete fencing of the SBPA final cover.
- MWH to collect additional soil gas samples to assess possible soil vapor intrusion into the house basement resulting from the smear zone in the South Area plume.
- MWH to reassess its approach to completing the lower aquifer investigation.

Signature: <u>Lar</u>	ry Campbell	Date: _	January 3, 2004
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WEEKLY CONSTRUCTION MEETING MINUTES FOR DECEMBER 23, 2004 MEETING AMERICAN CHEMICAL SERVICE, NPL SITE GRIFFITH, INDIANA

MEETING DATE: Thursday, December 23, 2004

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site

ATTENDEES: Kevin Adler - USEPA (via telephone)

Pete Vagt - MWH

Larry Campbell - BVSPC

Todd Lewis - MWH

Rob Adams - MWH (via telephone)

Lee Orosz - MWH
Amy Clore - MWH

TOTICS

Heal h and Safety Summary

There have been no health and safety issues since the last meeting on December 9th.

Austren Electric was on site in the past two weeks performing routine maintenance and had no health and safety incidents. On December 21st, MWH was on site performing PSVP monitoring and froundwater level monitoring and had no health and safety incidents.

Groundwater Treatment Plant (GWTP) Status

The WWTP is presently operating at approximately 25 gallons per minute (gpm). There has been no down time of the GWTP since the last meeting on December 9th.

On Executive of the Corosz observed that the center studge rake in the activated studge clarifier was not moving. The GWTP was taken offline and the liquid in the clarifier was pumped down on December 7th and 8th to allow for inspection of the rake. On December 9th, MWH found that a piece of angle iron approximately one foot long had become lodged in the rake assembly preventing it from functioning properly. The obstruction was removed. MWH has not identified the source of the angle iron. The GWTP and ISVE system was put back online on December 9th.

Off-Site Area/SBPA ISVE Systems

Thermal Oxidizer 1 (Therm-Ox 1) is currently treating vapors from the Still Bottoms Pond Area (SBPA). The SBPA ISVE system is currently operating with a vapor collection rate of approximately 1,000 cubic feet per minute (CFM). There were no changes in which of the SBPA ISVE system wells are operating. Fourteen wells are currently operating; eight show measurable flow. The water levels in the wells are still high in the area. MWH is currently evaluating options for removing the water from the SVE piping to increase the flow.

Thermal Oxidizer 2 (Therm-Ox 2) is currently treating vapors from the Off-Site Area and aeralion tank T-102 with a vapor collection rate of approximately 2,000 CFM. Twenty-eight wells are currently operating in the Off-Site Area. MWH is evaluating the potential to enhance performance by changing which wells are operating or increasing the number of active wells to increase the productivity of the SVE flow.

SBHA Final Cover

The additional fence posts needed to expand the yellow fencing system in the SBPA have been delit cred to the site. The base-plates for the posts will be filled with concrete at the beginning of next week and the new fence configuration is estimated to be complete within the next two weeks.

MWH anticipates submitting the SBPA Final Cover Construction Completion Report in January 2005.

Lower Aquifer Investigation

MWH is currently validating the analytical results from the Lower Aquifer Investigation. A report detailing the findings of this investigation and proposing an additional follow-up investigation is anticipated to be submitted in January 2005.

Chernical Oxidation Treatment

MW has contacted the property owner of the residence at the corner of Colfax Avenue and Reder Road to inform him of the March 2005 plans for a second round of Chem Ox injections.

Groundwater and Residential Well Sampling

MWHI has evaluated the results from the groundwater sampling activities completed in September 2004. Trace amounts of DDT was indicated in the sample for one residential well. The esident informed MWH that they had used bleach to improve well performance earlier this year prior to the MWH sampling event). DDT has not previously been detected in this well and is not thought to be related to the ACS Site. Upon suggestion by the EPA, MWH will resample the desidential well for pesticides in early January 2005. The EPA will contact the resident to inform them of the findings and explain the next steps.

The proundwater report from the September 2004 sampling event was sent to the Agencies on December 23rd.

Site Voise Investigation

MW recently received a complaint from a local resident on the noise, which he believes to be produced by the GWTP. Peter Vagt will meet with the resident on December 23rd to determine the specific source of the noise. MWH is prepared to look into acoustical enclosures or other means of noise dilution if necessary.

Look Ahead Schedule	
December 24, 2004 through January 13, 2005	 Operate and maintain the GWTP/BWES/PGCS (on-going) Operate and maintain the ISVE (on-going) Pour concrete into base of yellow fence posts (TBD) Lower Aquifer Investigation report (January 2005) CCR for the SBPA Final Cover (January 2005)
Health and Safety Items to Monitor	 Routine daily tailgate health and safety meetings for all work activities Continued air monitoring in GWTP Monitor areas for icy conditions and apply salt where necessary Monitor weather conditions in advance of work scheduled outdoors so that workers can dress appropriately

Next Construction Meeting - Thursday, January 13, 2005, 10 AM.

ALC/F V
J:\209\ 601 ACS\0202 MWA PM\Meeting Minutes 2004\Meeting Minutes 12-23-04 doc

Construction Meeting Minutes
December 23, 2004 Meeting

December 30, 2004

ACS NPL Site

Weekly Oversight Summary Report No. 200 ACS Superfund Site WA57, 46526.238

Reporting Period: Week of December 27, 2004.

BVSPC O/S Dates: Cancelled because of limited site activities.

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	1	Respondent's General Contractor
Austgen	1	General Contractor

Construction Activities

Major Activities:

• Montgomery Watson Harza continued operating the groundwater treatment plant, the in-situ soil vapor extraction systems, and the air sparge systems.

Activities Performed:

Montgomery Watson Harza (MWH) reported that it continued to operate the groundwater treatment plant (GWTP) at 25 gpm and that the reactivated sludge clarifier rake operated satisfactorily. MWH reported that water was pumped to the GWTP from all available sources.

MWH continued to operate the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) and Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) systems, processing vapors through thermal oxidizers 1 and 2. Vapors from the ONCA SBPA ISVE system were processed through thermal oxidizer 1 (thermox 1), and those from the OFCA ISVE system were processed through thermox 2.

MWH reported that it was pulling vapors from 28 OFCA ISVE wells and that the two OFCA blowers are currently pumping vapors at 2,000 cubic feet per minute (cfm) back to thermox 2. MWH reported that it was now pulling vapors from 14¹ ONCA SBPA ISVE wells, although significant flow was observed in only eight of these activated wells. This system continues to operate at 1,000 cfm (with zero ambient air), pumping vapors back to thermox 1.

MWH reported that the air sparge systems continued to operate satisfactorily.

Topics of Concern: None.

Concern Resolution: None.

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¹Previous reports had incorrectly identified that vapors were being pulled from 12 SBPA ISVE wells. Actually, vapors have been pulled from 14 SBPA ISVE wells for a number of months.

Upcoming Activities:

- MWH to continue proving out the ONCA SBPA ISVE system wells.
- MWH to continue operating the GWTP and the OFCA and ONCA SBPA ISVE and air sparge systems.
- MWH to assess results of final laboratory testing of cores of the SBPA final asphalt cover.
- MWH to complete fencing of the SBPA final cover.
- MWH to collect additional soil gas samples to assess possible soil vapor intrusion into the house basement resulting from the smear zone in the South Area plume.
- MWH to reassess its approach to completing the lower aquifer investigation.

Signature:	Larry Campbell	Date:
		t:\projects\acs-raos\osr\2004\12\1227#200.wpa

1/25 Austgan ramoung acros our from Tank TZ to be able to romove starte Philo 71+011 - Leaking NW 1140 PACA 71-07 Lauking NW Shawing Lee washing down studge from cours Antah from TZ 1145 Photo 71-03 Lowery NW Into TZ Showing state being pumped out 13/5 Photo 7/104 Leaning Into TZ at Eagle Servides Tech, pump my out Studge + He's wearing respirator Thus 15 a premitted an fined Space entry 1350 Plato 71-05 Cooking down into bratant clarities thereing some proge assisting in councing water from Claritien 1905 Photo 71-06 Capaing New 14/2 TD after Shadge best been removed. He has sure Marger had been west last week to mouls to the of caloline 143 Act Side for day

109 7 Dec 04
1000 Array onsite overcast

rain Malm 4707

Personnel Onsite

Lee Orosz Mwt

Tim Kirkland Auston

J. Tyorusz Eagle Service

Robt Gordon "

Lovy Campbell Bush

1010 Lee Crosz fold LMC Heat

rotating rake in bio tent had

Stopped rotating last Friday, So Gutp

plant was shut down so must could

pampout wher from center well

of brotant. Eagle Services is consite

to pump out studge from brotance and

see if any object is broking rake

rotation. while GWTP is down,

Muit is sharing varrous prices

Tanks in GWTP

1020 Observed Tim (Austgen) washing

down studge in Sandon hamcik

clarifyer MES.

In Campbell

9Deg 04 1000 Construction Court 1114 (Phine) Attenders! Esite Les Crosz - Much PrabhaKar Kasarabala - (DETY) & Mun der Mie : Le Pote Vist, Reb Adams, Ched Smith, Walt Marsarily o Phone: K. Adlan - EPA Lang Complein BUSPC HAS - No 15540 Since lest my Had number of Contractors 5 to recently but No problems Eagh Sorvices ensite to cleam studge from inform of classion and vace Tunk - they required a permitted and the Continue entry. Freger presedures in person force Mittent permit, PPE, + air sampling wer As Hower GWTP ON NOV 25 power cutage (unp beg of 3 - phase service) and all unit shut down. Many blown faser & crown threakers. Buck on line Friday 11/26 Hu; been vunny at 25 Spm since 11/26 411 12/6 lehen rake in Wiotank

In campbeg

Stopped rotating. Starter pumping out liquid from clarifyer well on Manday. Eagle Sources onsite Ties - Their pumping our studge from Clarityer, Found angle Ivan in drain trap, - may have deused rotation stoppinge. Lee to evolute laker frage It rate will rotak, will restort GuTP polay. - Access inte clar her well was a permitted dentined spect entry. Thermose Units Both units have been exerciting well since last My Must Shat both down Thes 12/7 because Exposist from units was blowing over dan from - making unsite want and Box Eagle Sources , They are in hat idle until clavifin work is decre + they can be restarted GUTP Tunks - because plant was draing Mu't aponed tanies - Lamilla Clarker # MECS and Tax TZ Eagle Services made confine space endry unto TZ - All dans OK. In Campbell

An Sparge systems were Started on 12/2 in beth CFCA & SBAA of wired well.

1SVE Systems . OPCH - on 11/24, must detricted 14 additional 150E wells in CFCA New wells are SUE 1,7,8,9, 14,15, 15, 21, 27, 30, 31, 33, 36, \$ 34,

Now total of 28 wells in OFCA Immediately get good flow from 11 of 14 wells. andruce to work

on other 3 wells.

- On 11/23, Marbor Insulation was muste to spray insulation on walls + Ceiling of auxiliary blown Shed in OPCA

-ONCA-SBPA

Still drawing Vapors from Same 14 wells but have netrus Significantly decreased flowfrom a wells. Must has noted that water levels in SPSPA have Misery recently which may decreate the evailable St. + one area for sie wells for vapors,

Im Campbell

MUH Will assess options to iniverse Vapor flow - possibly switch to distoract weils

- MWH has not removed product from SBIA weds for >2 mars. - not encyt to pump, will assess province at end of Dec when measurements as mula

SBPA FINAL COUR - MWH WILL expand the area of ferring around SVE WIIS to Minimize ares for havy truck traffic. When new yellow posts arrive Must will fill their bases up concrete to provide adjust stability to remain upright in winds

- Mud recrived find alliverables from Walsh & Kelly so they can complete the CCR for SBPA cover. Expect to submit in week of Jan 18, 05

Chemox Treatment

Much has received the Post Application 2 analy tred Vesults and found many decreases in demembrations for various types of obemicals. For Example at TWOI the GRO

In ramphily

ppm. Espect to undust next application in March 05 (rather than Feb - (lan't lux et in freezing live after.

Soil Gus Sampling

Additional Sampling plans being developed at Residence et 1002 Reder Roads

GW Minitering

Analytical results for Sept Sampling are completed, GW Manifering report will be Submitted to agencies in late Dec. - Resident data is out to residents Computation had fewer less produme Next Sampling in Mar OS Lower Agnifor - data are being ravidated, then will prepare

report of proposal for Next plass A investigation. Will Submit in Tunuary. Conduct add'! work in Spring OS -MINT G. + carproval from Cong & to dispose I LA invest Soil Cuttings along we studge from GwTP. Will Consiliate links one rollow box + ship offsite wii 2 wks.

LOOK Ahead Schedul

- continue to operate GwTP

- 11 11 15VE Syskus

- " air spage systems

- Instill SBAT fenring

- Mussure leybor few 15 next wx

- Sumple + EX persermanc. of 15VE wells object mes week

- Submit Royt for Sentiaunuil Gue Buryling (Supt) un lake Dec

Next Mtg. Thur Dec 23 0 10AM

Bezz Charles

(112) 23 Dec 04 0930 Amre Onsik Clear, Calm, Cold 130F Personnel onsile Lee Orosz Must Tim Kirkland Auston Peter Vast MUNT Liry Camphell Bush 1000 See my Notes mpg 113-115 1107 Photo 71-07 Lucking S at Lee orings giving Has briefing of lout residents Conserved about noise from GWTP blowers. · Havered Anderson · Dunna Gonzale 3 1.14 Plush 71-08 Locking W at residents lacking at blanks 155 Photo 71-69 Lacking Eat Snow aven i Hes plant 1200 hoff Site for day thre and onside truck in winter how conament M Clerytha

1000 Amstructon Corrd. Mtg. Altenders AT Site Poke Vast, Lee Orosz - mall Lam Campbell - BISK Via Phone: Reb Alams, Todd Lowis. Amy Clark - MUN - Kun Adler - USEPA 1495 - No 19545 since last Mits. Gutt - running at 25 gpm - No Shut down since ier mirg. No Major maint, activity. Pumping from 411 40011 Surces. ON Dec. 9 MUN + Eagle Sorvies from a Short (1) andfe laught in the race assembly of the similar claritier operation of brosenet the Dec 9. Source of angle has not been identified. 1502 545 toms - Both Systems ofending OFCA System pumping from 28 3LE weer, pulling = 2000 ofm + processing thru Thermox 2. Must may recore well from dellection to increase mass from there syskem

Im Campbell

(114)

CNCH 3BPA pulling 1000 cfm from I 14 webs but only 8 hour flow Look Thore is water in some SUE wells and some conveyance propay. Processing Vapors thru ther max 1

JBPA Find Cover - Must expects 12

15540 report in Mind January. For
the foreing standburgs must his
removed some from protests bosses of
will fill wo Coment ground
next week.

Chemore Treatment - LUTH Reapply in Maria, 2015. Have notice 5, gmi breant observers in contaminant Concentrations.

Lower Aguila Investigation - Most

expects to fractize require the plane in

Sommen of proper new plane in

Sprong - May Install Manitoring

Wills 45 ing the Potosonic rig.

Rosidented Will Sampling - Trace and

Rosidented Well Sampling - Trace ancomb

B DDT were form in well PW-A

MWH Will resample in Jan

Noise issue - Must Met WI local residents

re noise from blowers - May should thous

to reduce noise.

- Continue la operate GAVTP, 15 vE, AS

- Comple SBPA Fencing

- Complete Lower Agusta Report

- Submit SBPA Foul Cover CCR

Safety Look Straf

- watch for dold temp of snew & ily louditions

Nort My Jan 13, 20050 10 Am My over e 10:30 sm





American Chemical Service, Inc. Site:

46526 Proj. #:

Photo #1 Roll: 71 Time: 1125 Date: 12-07-04

Photographer: Larry Campbell Photo facing northwest showing Austgen Description:

removing access cover from tank T2 to be able to remove sludge from interior.

American Chemical Service, Inc. Site:

Proj. #: 46526

Photo #2 Roll: 71 Date: 12-07-04 Time: 1140

Photographer: Larry Campbell

Description: Photo facing northwest showing Lee

Orosz washing down sludge from the

access cover from tank T2.





Proj. #: 46526

Roll: 71 Photo #3 Time: 1145 Date: 12-07-04 Photographer: Larry Campbell

Description: Photo facing northwest looking into tank

T2 showing sludge being pumped out.

Note heat exchanger inside tank.

Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 71 Photo #4 Date: 12-07-04 Time: 1315

Photographer: Larry Campbell

Description: Photo facing northwest looking into tank

T2 showing Eagle Services technician pumping out sludge. This is a permitted

confined space entry.





Proj. #: 46526

Roll: 71 Photo #5
Date: 12-07-04 Time: 1350
Photographer: Larry Campbell

Description: Photo facing down into biotank clarifier

showing sump pumps assisting in

removing water from clarifier.

Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 71 Photo #6
Date: 12-07-04 Time: 1405
Photographer: Larry Campbell

Description: Photo facing northwest looking into tank

T2 after sludge has been removed.





Proj. #: 46526

Roll: 71 Photo #7 Date: 12-23-04 Time: 1107

Photographer: Larry Campbell

Description: Photo facing south showing Lee Orosz

giving a health and safety briefing to local residents concerned about noise

from the GWTP blowers.

Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 71 Photo #8
Date: 12-23-04 Time: 1114
Photographer: Larry Campbell

Description: Photo facing west showing residents

looking at blowers at GWTP.





Proj. #: 46526

Roll: 71 Photo #9 Date: 12-23-05 Time: 1150

Photographer: Larry Campbell

Description: Photo facing north showing Lee and

onsite vehicle with new winter hood

ornament.

Site: American Chemical Service, Inc.

Proj. #: 46526 Roll: 71 Photo #10

Date: 12-23-04 Time: 1155

Photographer: Larry Campbell

Description: Photo facing east showing snow covered

ACS plant.